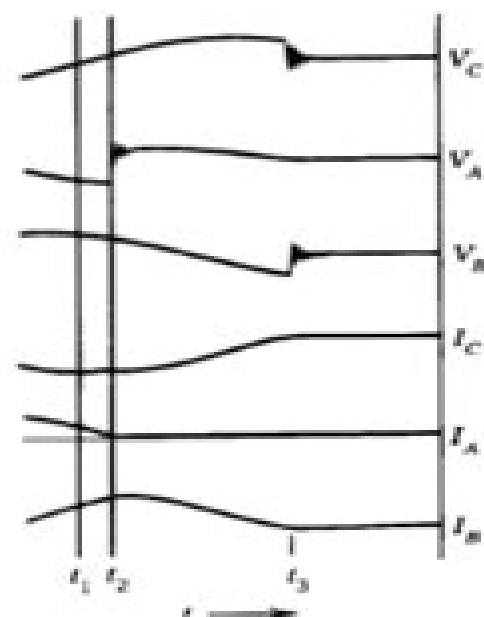


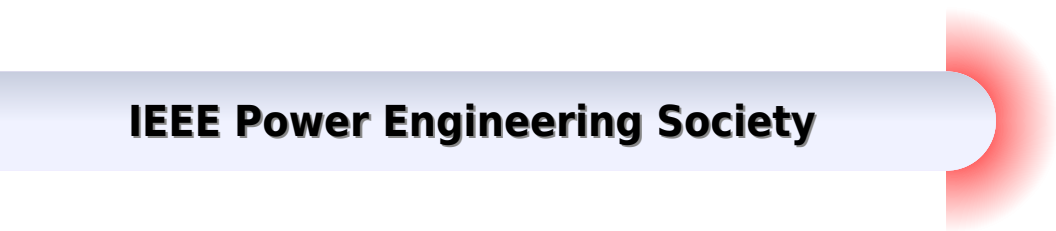


**Fig. 6.6.** Transients evoked by interrupting the starting current of a 13.8 kV, 3,000 HP motor.  $t_1$  contacts of circuit breaker separate;  $t_2$  current interrupted in phase *A*;  $t_3$  current interrupted in phases *B* and *C*. (Courtesy American Electric Power Company).

A situation very close to that which has just been described occurs when the starting of a motor is aborted and the circuit breaker or contactor interrupts the starting current. The motor, at rest, behaves like a three-phase reactor with its neutral isolated. An oscillogram for such a switching operation is presented in Fig. 6.6. Phase *A* is seen to interrupt first, creating clearly discernable discontinuities in the currents of the other two phases, which now become equal and opposite. Simultaneous interruption of the currents in phases *B* and *C* occurs  $90^\circ$  later; note the lower recovery voltages experienced by poles *B* and *C* of the breaker compared with that of phase *A*. Note, also, that these are equal and opposite.

# Solution Manual Transient Power System Greenwood Manual

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